

- sub A1* > 1. In a switching amplifier of the type wherein one or more references are coupled to a load through gated switches controlled by a pulse-width modulated input signal, the improvement comprising:
- 4 adding a minimum pulse width to some or all of the switching devices so as to null the common-mode output presented to the load.

- B1* > 2. The improved switching amplifier of claim 1, wherein the switches are arranged as differential pairs on either side of the load.
3. *B* The improved switching amplifier of claim 1, wherein minimum pulse width is added during the pulse-width modulation of the input signal.

- sub A2* > 4. An enhanced performance switching amplifier coupling an input signal to a load, comprising:
- at least one electrically controlled switch coupled to each side of the load; and
- 4 a waveform generator operative to perform the following functions:
- a) control the switches in accordance with the input signal, and
- 6 b) adding a minimum pulse width to so as to null common-mode output presented to the load.

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5. The improved switching amplifier of claim 4, wherein the switches are
2 arranged as differential pairs on either side of the load.
6. The improved switching amplifier of claim 4, wherein minimum pulse
2 width is added by the pulse-width modulator.